

SWBAT

make vocabulary study cards that support learning concepts

Sep 4-7:31 AM

Welcome!!!

SECA CP Physics  
Tuesday 27 October 2015



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Centering  
(quote)

- SchoolView up
- Vocabulary Cards
- Moving Man
- Pg 29 Notes + card

- Presentations?

Opening Activity:

Compare Intro to Acceleration (pg 29) with someone else. Summarize it in your own words.

Quote:

If you don't step forward,  
you're always in the same  
place

Sep 7-7:04 AM

## InterActive Notebook - Table of Contents

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Sep 5-9:09 AM

PG 29

ACCELERATION IS  
CHANGE IN VELOCITY OVER  
CHANGE IN TIME

$$a = \frac{\Delta v}{\Delta t} = \frac{v_f - v_i}{t_f - t_i}$$

Oct 27-9:54 AM

Pg 28

## Observations of cork in jar

- What is the cork doing when the jar is still?

THE CORK <sup>FLOATING</sup> STAYS IN THE MIDDLE  
NEAR THE TOP OF THE JAR

- What happens as you walk around?

IT CAN MAKE BUBBLES  
- IT MOVES AROUND  
- SPINS <sup>AWAY</sup> W/ ME, CAN MAKE CIRCLES <sup>MIDDLE</sup>

- Try speeding up, rolling steadily, stopping suddenly. What can you observe about the cork?

SPINNING AROUND?  
CORK WENT WITH SAME DIRECTION AS  
SPIN  
CHANGE IN DIRECTION

Conclusion: When the cork is away from the middle, it is showing us ACCELERATION  
= CHANGE IN VELOCITY

ACCELEROMETER  
TELLS THE DIRECTION

Pg 29 questions?

Oct 21-7:55 AM

Pg 19: Algebra for Physics!

1. drawing a picture is recommended
2. always make a list of what you know and want to know.
3. always write down the equation you are going to use as letters/symbols
4. Put in the things you know including units and then solve
5. Check if the answer is reasonable

Pg 18: #12-14

$$S = \frac{d}{t}$$

EXAMPLE: MY CAR AVERAGED  $53 \frac{\text{mi}}{\text{hr}}$

I DROVE 492 mi. How LONG DID IT TAKE ME?

$$\begin{aligned} S &= 53 \frac{\text{mi}}{\text{hr}} \\ d &= 492 \text{ mi} \\ t &= ? \end{aligned}$$

$$S = \frac{d}{t} \Rightarrow t = \frac{d}{S}$$

$$t = \frac{492 \text{ mi}}{53 \frac{\text{mi}}{\text{hr}}}$$

$$\frac{53 \frac{\text{mi}}{\text{hr}} \cdot t = 492 \text{ mi}}{\frac{53 \cancel{\text{mi}}}{\text{hr}} \cdot \frac{1}{\cancel{\text{mi}}}} = \frac{492 \text{ mi}}{53 \frac{\text{mi}}{\text{hr}}} \cdot \frac{1}{1 \text{ hr}}$$

$$t = 9.3 \text{ hr}$$

#12?

$$\begin{aligned} S &= \\ d &= 155 \text{ miles} \\ t &= 30 \text{ min} = .5 \text{ hr} \end{aligned}$$

Attack the prompt:

Circle action words

- find, calculate, "what is the", ...
- discuss, describe, analyze, ...

Underline the specifics

Oct 22-9:20 AM